

STATEMENT OF CLAIMS STATUS

Claims 1-10 and 22 are pending in the application.

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SUPPLEMENTAL AMENDMENT AND RESPONSE

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Page 2 of 8

Title: :LIQUID EMANATOR DEVICE TO DELIVER
SELF-SUSPENDING INSECTICIDE DROPLETS

Serial No.: 09/870,117

Attorney Docket No.: CLX-602 (470.136A)
SuppAmd&Resp 072406-1.wpd

CLAIMS AMENDMENTS

Claim 1 (previously presented) A method of metered delivery of an insecticidal liquid comprising the following steps:

- communicating insecticidal liquid from the reservoir of a bubble-jet liquid emanator device into a capillary tube portion thereof;
- controlling the temperature of vaporization of the insecticidal liquid at a temperature at least 30°C below the decomposition temperature of the insecticide therein;
- vaporizing a portion of the liquid within the capillary tube portion; and
- ejecting small droplets of the liquid from the bubble-jet liquid emanator device, the droplets having a volume medium diameter of between about 1 μm and about 7 μm ; and
- imparting the droplets of insecticidal liquid with a static charge.

Claim 2 (canceled)

Claim 3 (canceled)

Claim 4 (previously presented) The method of Claim 1 further comprising the step of dissolving a suitable gas in the insecticidal liquid prior to vaporization thereof.

Claim 5 (canceled)

Claim 6 (previously presented) The method of Claim 1 further comprising the step of controlling the static charge at about $-1 \times 10^4 \text{C/kg}$.

Claim 7 (canceled)

Claim 8 (canceled)

Claim 9 (canceled)

Claim 10 (currently amended) The method of Claim 1 ~~in which~~ further comprising the step of ~~controllably vaporizing the volume of insecticidal liquid comprises~~ activating an electronic circuit containing a resistive heating element coupled to the capillary tube portion to cause an essentially instantaneous, temporary increase in temperature of the capillary tube portion.

Claim 11-21 (cancelled)

Claim 22 (currently amended) The method of Claim ~~1~~ 4 in which the gas is selected from one or more of the following hydrogen, nitrogen, oxygen, air, helium, neon, argon, krypton, xenon, methane, ethane, ethylene, acetylene, N₂, CO₂, and O₂ .

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